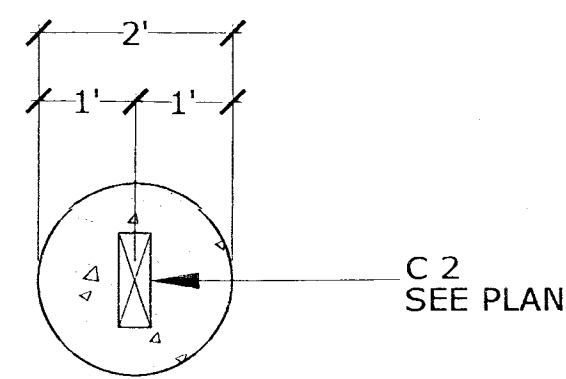
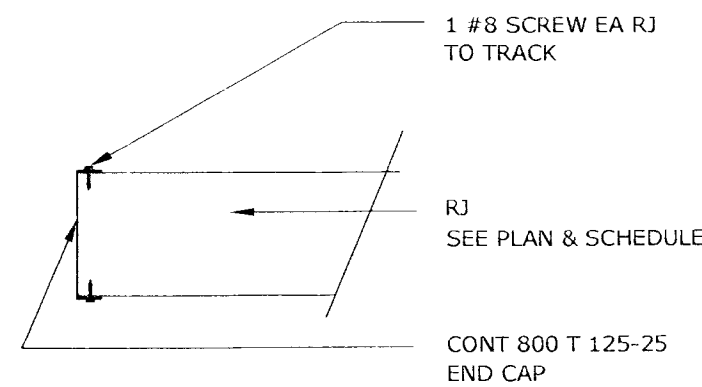
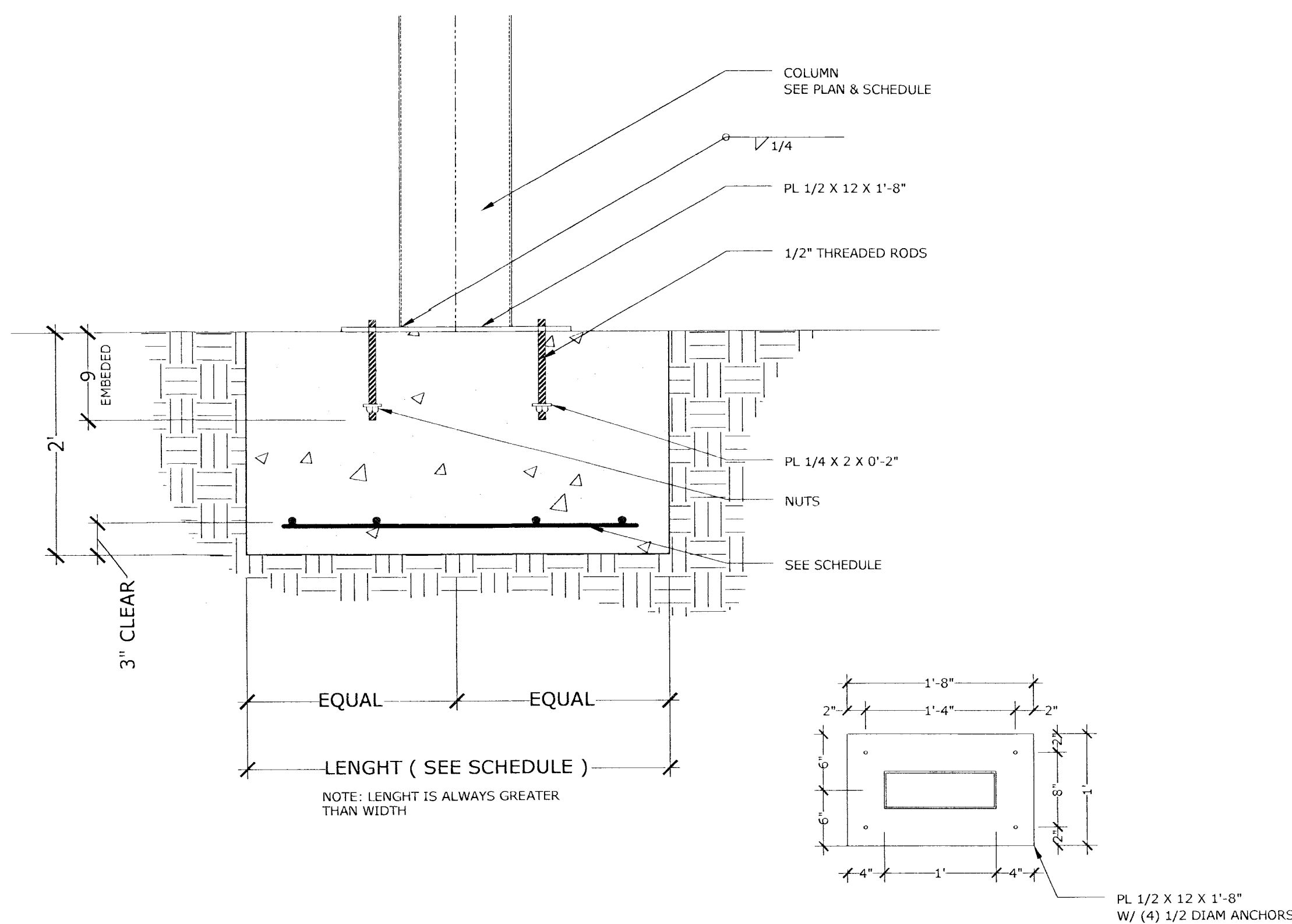




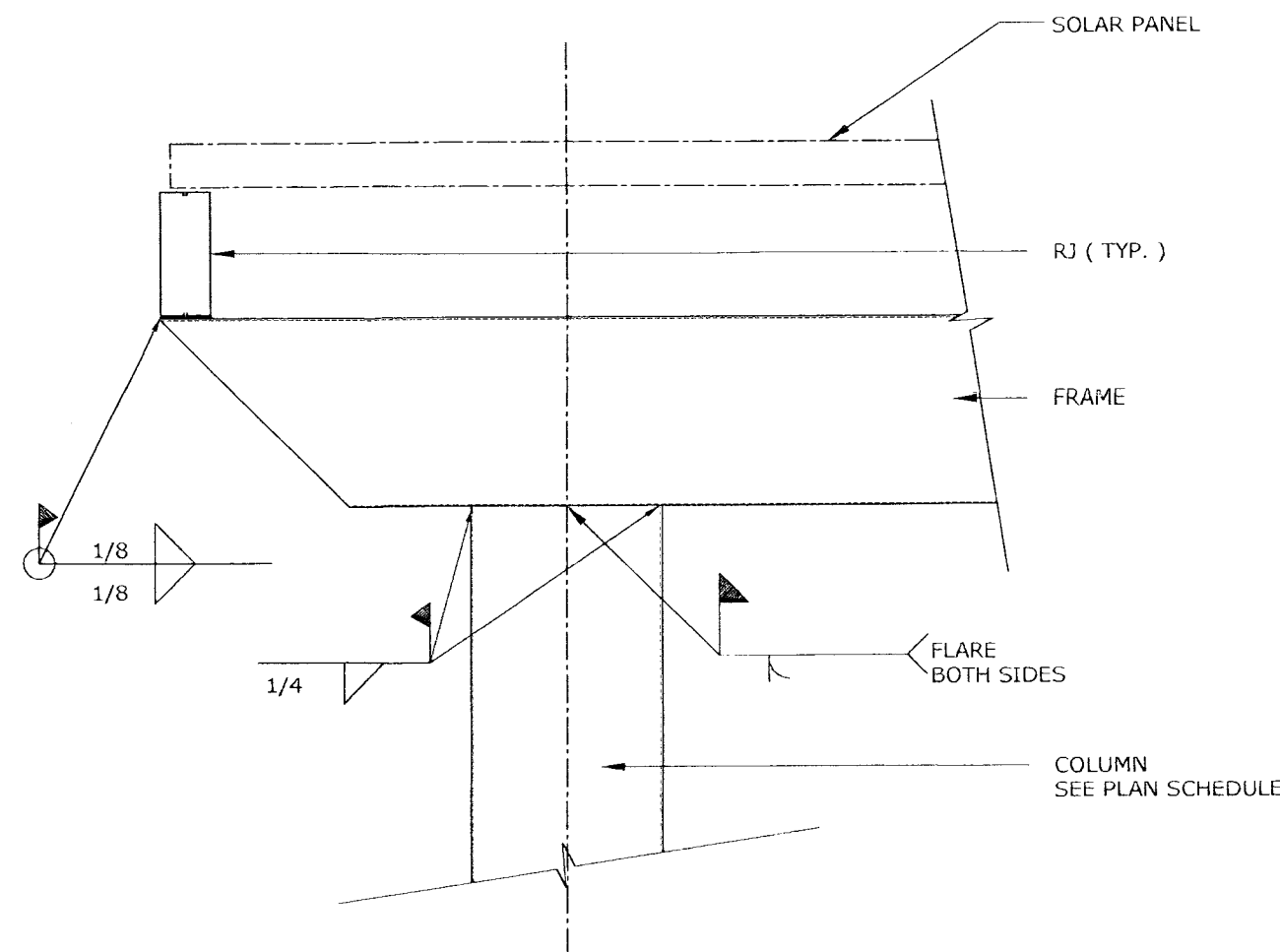
DETAIL " 4"
SCALE: 1/2" = 1'-0"



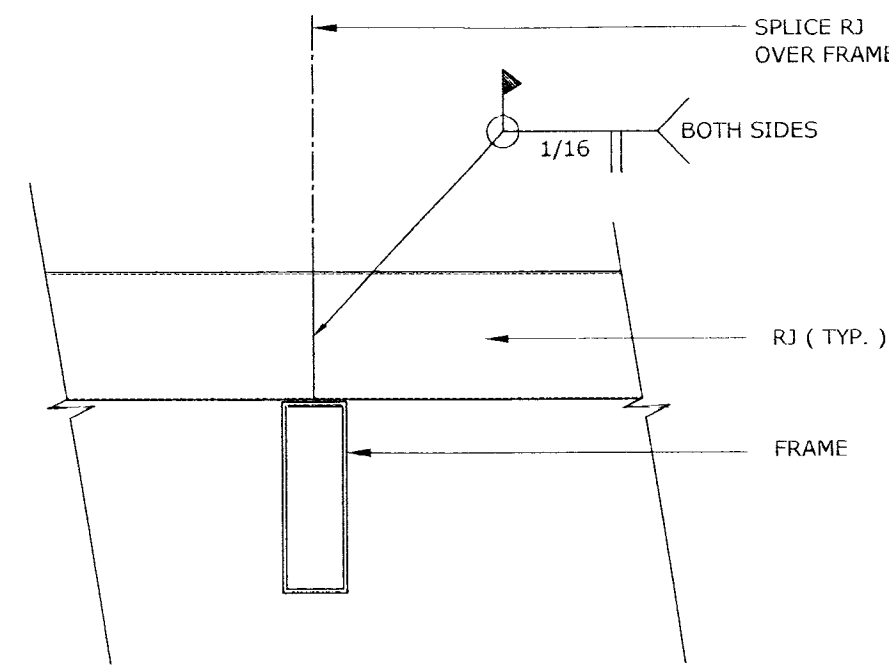
DETAIL " 6"
SCALE: 1" = 1'-0"



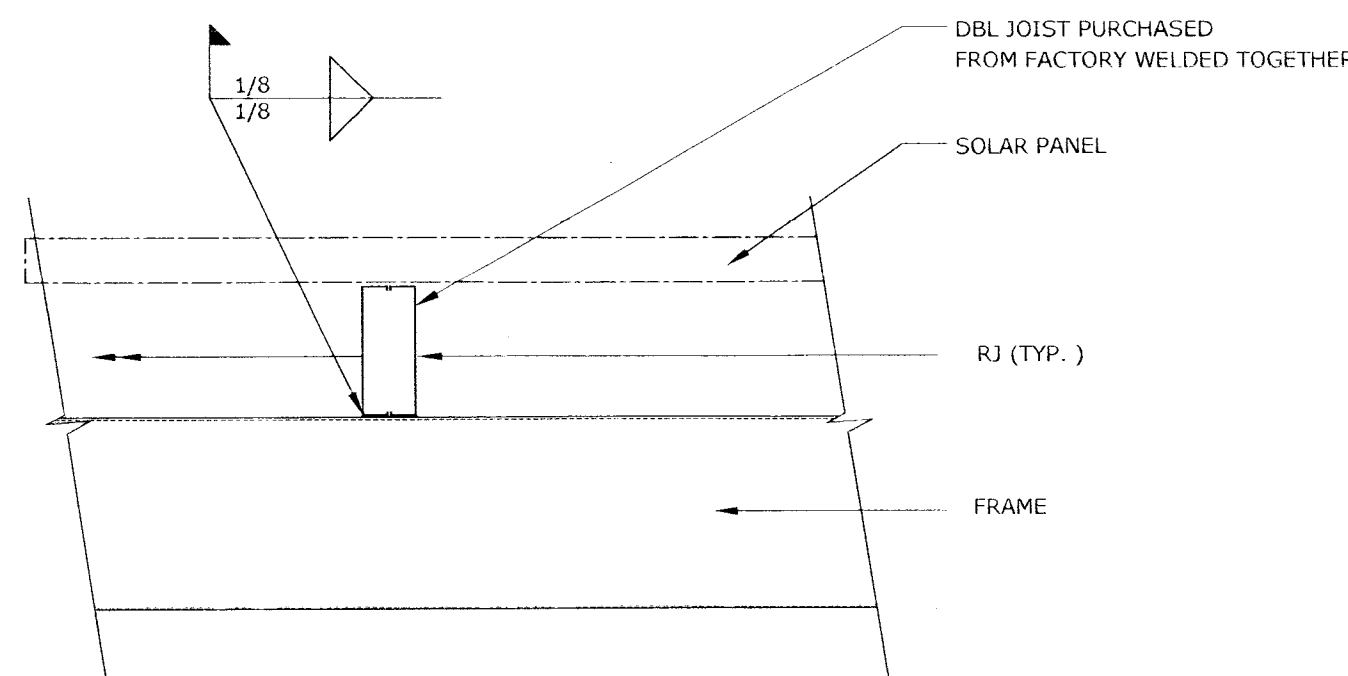
DETAIL " FT1A" ALTERNATIVE FOOTING
SCALE: 1" = 1'-0"



DETAIL " 1"
SCALE: 1" = 1'-0"



DETAIL " 2"
SCALE: 1" = 1'-0"



DETAIL " 3"
SCALE: 1" = 1'-0"

SPECIFICATIONS

CODE	2008 INTERNATIONAL BUILDING CODE		
SOILS	PER SOILS REPORT BY: JA CESAR	NUMBER	11-1045A
	ALLOWABLE SOIL BEARING IS	DATED:	April 28, 2011
	PASSIVE PRESSURE =	2000 PSF	NEGLECTIBLE SULFATES
CONCRETE	f _c =4500 PSI (in) 28 DAY ULTIMATE COMPRESSIVE STRENGTH, TYPE V CEMENT, 4" OR LESS SLUMP ALLOWED, W/C = .45 WITHOUT SPECIAL INSPECTION FOR SULFATE RESISTANCE f _c = 2500 PSI FOR CALCULATIONS		
REINFORCING BARS	ASTM A615 GRADE 40 FOR #4 OR SMALLER		
CONNECTORS	BY SIMPSON STRONG-TIE. SUBSTITUTIONS FOR SIMPSON STRONG TIE CO. INC.'S PRODUCTS MUST BE EQUAL IN DESIGN, QUALITY, SPECIFICATIONS AND PREAPPROVED BY I.C.B.O. BEFORE CONSTRUCTION		
STRUCTURAL STEEL BOLTS	ASTM A307	Fy = 50 ksi	Fy = 46 ksi
TS STRUCTURAL STEEL TUBING	ASTM A500	GRADE B	
STEEL PLATES & SHAPES	ASTM A36	Fy = 36 ksi	
ELECTRODES	AWS D1.1-04	E70XX	
FASTENERS	BY HILTI OR EQUAL		
ANCHOR BOLTS	EMBEDMENT IN CONCRETE--7" MIN FOR SILL PLATES ALL OTHERS TITEN HD ANCHOR SCREWS 1/2" φ 4" MINIMUM U.N.O. FOR MISSED ANCHOR BOLTS 5/8" φ 4 1/2" MINIMUM U.N.O. 3/4" φ 5" MINIMUM U.N.O.		
SCREWS	ALL SCREWING SHALL BE MADE WITH SREWS PER NDS-05 SCREWS. AT ALL LOCATION, STUDS, TRACKS, SHEAR WALLS, TO ROOF OR FLOOR SHEATHING		
SCREW SPECIFICATIONS			
#6	0.138 in Dia		
#8	0.164 in Dia		
#10	0.19 in Dia		
#12	0.216 in Dia		

FIELD CONDITIONS	NOTIFY ENGINEER IF FIELD CONDITIONS ARE NOT AS ASSUMED IN THE CALCULATIONS AND/OR DRAWINGS.		
WOOD	YES SPECIAL INSPECTION REQUIRED		
CONCRETE	NO NAILING/BOLTING/ANCHORING OF DRAG STRUTS, BRACES AND HOLD-DOWNS		
STEEL	YES FIELD WELDING OF DECKS, JOISTS AND PLATES		
MASONRY	NO CMU AT FULL STRENGTH LEVEL 1		
OTHER	NO BOLTS OR REBAR WITH EPOXY ANCHORAGE		

Means and methods of construction are the sole responsibility of the contractor. Drawings and specifications remain the property of the design professional. Copies of the drawings and specifications retained by the client may be utilized only for his use and for occupying the project for which they were prepared, and **not for the construction of any other project** (NRS 623.780)

ROOF JOIST SCHEDULE

RJ2C	(2)	800	S	200	-	54	at	8.50 ft oc
RJ2E	(2)	800	S	200	-	54	at	8.50 ft oc
RJ2F	(2)	800	S	200	-	54	at	8.50 ft oc

ROOF BEAM SCHEDULE

Frame 10	HSS	12	x	4	x	3/16
Frame 12	HSS	12	x	4	x	3/16
Frame 15	HSS	12	x	4	x	3/16

COLUMN SCHEDULE

C1	HSS	12	x	6	x	3/8	NOT USED
C2	HSS	12	x	4	x	1875	

ROOF DIAPHRAGM/SHEATHING

SOLAR PANEL AS DIAPHRAGM - VIERENDEEL TRUSS

FOOTING SCHEDULE

Per soils report by JA Cesare, Project No. 11-1045A, dated April 28, 2011
q_{max} = 2000 psf, 1/3 available for wind and/or seismic loads. Negligible Sulfates
Minimum width of footings is 12 inches and minimum depth is 12 inches below adjacent compacted subgrade. 360 psf/ft Passive Pressure. Friction Coefficient = 0.40
USE FOOTING F1 AS 24" DIAMETER BY 5'-0" DEEP
USE FOOTING F1A AS 2'-9" by 4'-0" by 24" DEEP WITH 3-#4 EACH WAY

IN LIEU OF STRUCTURAL REVIEW PLANS AND CALCULATIONS ARE DEEMED ACCEPTABLE IF SEALED AND SIGNED BY A NEVADA LICENSED CIVIL OR STRUCTURAL ENGINEER
Make no change without approval. Not a permit to violate any ordinance.

REVISIONS

ENGINEER
KUBOTA & ASSOCIATES ENGINEERS, LTD.
5125 W. LAS VEGAS BLVD #4
LAS VEGAS, NV 89118
TEL: 702.367.2800

CONTRACTOR
MDI STEEL
328 EMERALD VISTA WAY
LAS VEGAS NV 89144
TEL # 702.450.2221
LIC # 0056235

PROJECT: CITY OF LAS VEGAS WSC VEHICLE SERVICES BUILDING
ITEM #2 - 17'-0" WIDE X 284'-0" LONG WITH 16 POST
2950 ROMEUS DR.
LAS VEGAS NV 89128
PART OF APR # 138-15-201-002

ENGINEER STAMP

EX 06/11 MAY 23 2011

DATE: 05-10-11

SCALE: NTS

522-VS7-CSP

SHEET

S-2